



DV

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/85, 15/63, 15/64, A61K 48/00		A1	(11) International Publication Number: WO 95/32297 (43) International Publication Date: 30 November 1995 (30.11.95)
(21) International Application Number: PCT/GB95/01195		(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).	
(22) International Filing Date: 25 May 1995 (25.05.95)			
(30) Priority Data: 9410446.0 25 May 1994 (25.05.94) GB			
(71) Applicant (for all designated States except US): CANCER RESEARCH CAMPAIGN TECHNOLOGY LIMITED [GB/GB]; Cambridge House, 6-10 Cambridge Terrace, Regent's Park, London NW1 4JL (GB).		Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(72) Inventor; and			
(75) Inventor/Applicant (for US only): BROWN, William [GB/GB]; 3 The Green, Clanfield, Oxfordshire OX18 2SR (GB).			
(74) Agent: GREAVES, Carol, P.; Mewburn Ellis, York House, 23 Kingsway, London WC2B 6HP (GB).			
(54) Title: NOVEL CHROMOSOME FRAGMENT AND ITS USE AS A VECTOR			

(57) Abstract

The present invention relates to the field of molecular genetics and in particular to artificial chromosomes, to their preparation in particular using telomere-directed chromosome fragmentation techniques and to their use as DNA vectors, for instance for application in gene therapy and animal transgenesis. Vectors of the invention comprise a chromosome fragment which fragment is at least partly responsible for centromere function of the parent chromosome and is capable of replication and segregation during cell cycle, and which is of such a size that it can be resolved using gel electrophoresis. Suitable fragments are derived from the human Y chromosome.